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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/935,557	08/22/2001	Erik Gunther	GUNE117293	8854
26389	7590 12/20/2005		EXAMINER	
CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC			CLOW, LORI A	
1420 FIFTH A SUITE 2800	VENUE		ART UNIT	PAPER NUMBER
SEATTLE, WA 98101-2347			1631	

DATE MAILED: 12/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Continue Continu		Application No.	Applicant(s)					
Lori A. Clow, Ph.D. 1631				,				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extension of time may be available under the approxime of 37 CFR. 13(6). In covert, hower, may reply be timely find the communication of the property of the	Office Action Summary	Examiner	Art Unit					
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Application/Control Number: 09/935,557

Art Unit: 1631

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Applicants' response, filed 12 September 2005, has been fully considered. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claims 1-37 are currently pending. Claims 1-4, 6-11, 18-21, and 32-37 are hereby examined, as they are drawn to the elected species. Claims 5, 12-17, and 22-31 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 10 October 2003.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art. 1.
- Ascertaining the differences between the prior art and the claims at issue. 2.
- Resolving the level of ordinary skill in the pertinent art. 3.
- Considering objective evidence present in the application indicating obviousness 4. or nonobviousness.

Claims 1, 2, 4, 6-9, 18-21, and 32, and 34-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,368,794 (Daniel et al.) in view of Marton et al. (Nature Medicine (1998) Vol. 4, No. 11, pages 1293-1301.

Daniel et al. teach steps (a) and (b) of instant claim 1 in column 10, lines 5-67. In column 10, lines 5-20, the determining of gene expression profiles wherein differing levels of expression are detected and quantitated is set forth. In column 10, lines 54-67, hybridization complexes are described for such determinations wherein a standard value (first expression profile of step a) of instant claim 1) for each signal is discussed which is altered compared to said standard in a disease state which is the second sample profiling practice of step b) of instant claim 1. Column 10, lines 64-67, begins a discussion of utilizing such assays for evaluating the efficacy of a therapeutic regimen. In column 1, lines 1-7, this evaluation practice is clarified in that a treatment protocol is initiated and hybridization assays are repeated to "determine if the level of expression in the patient begins to approximate that which is observed in a healthy subject". Such comparisons are also reasonably a difference profile determination as in instant claim 2. Such repeated assays of expression levels after treatment is reasonably step (c) of instant claim 1 when considered in view of what is meant in Daniel et al. regarding treatment.

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Daniel et al. goes on to state that the results may be used to show the efficacy of treatment over time. The approximation of assay level outcome to a healthy subject is reasonably interpreted as accurately suggesting and motivating step (d) of claim 1 wherein efficacy of treatment causes the expression level to return to the first profile of a healthy subject. Daniel et al. describes what is meant therein for treatment as several citations including column 2, line 65, through column 3, line 5, which is clearly an analyte as instantly utilized in step (c) of instant claim 1. In column 5, lines 27-42, the sequences that may be selected for pharmaceutical compositions are first selected from differentially expressed genes in cancerous or precancerous tissue and thus are uncharacterized at that point as to whether they have any specific pharmacological activity as also a limitation in instant claim 1, step (c).

Daniel does not specifically teach "at least one analyte of previously uncharacterized specific pharmacological activity with respect to the parameter by which the first and the second samples are known to differ". However, Marton et al, teach a method of drug target validation and identification of secondary drug target effects based upon genome wide expression patterns (abstract). Specifically. Marton teaches a method that permits the direct confirmation of drug targets and recognition of drug-dependent changes in gene expression that are modulated through pathways distinct form the drug's intended target (abstract). Therefore, it would have been prima facie obvious to one of ordinary skill in the art at the time of the invention to have used the method of identifying "previously uncharacterized drug activity" of Marton in the methods of Daniel. One would have been motivated to do so because Marton states that expression arrays can be refined to increase the reliability of the data and permit new applications. For example, subtle gene signatures can be detected.

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Conclusion

Claims 3, 10, 11, and 33 are objected to for being dependent upon a rejected base claim, but would be allowable if rewritten in independent form, including all of the limitations of the base claim and any intervening claims.

The prior art does not teach or fairly suggest comparing, using a neural network, a third expression profile with a first and second expression profile to identify one or more analytes that induces a third expression profile that is more similar to the first expression profile than is a second expression profile. Further, the prior art does not teach or fairly suggest the method steps wherein one of the expression profiles is determined by simultaneously detecting rates of transcription.

Inquiries

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The Central Fax Center Number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lori A. Clow, Ph.D., whose telephone number is (571) 272-0715. The examiner can normally be reached on Monday-Friday from 10 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel, Ph.D., can be reached on (571) 272-0718.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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December 12, 2005 Lori A. Clow, Ph.D. Art Unit 1631

MARJORIE A. MORAN PRIMARY EXAMINER

Sayou a. Moran 12/12/05